



SUBSTITUTE SPECIFICATION WITH MARKINGS TO SHOW CHANGES MADE

TITLE OF THE INVENTION:

5 Nectarine Tree 'S 6817'

CROSS REFERENCE TO RELATED APPLICATIONS:

None

10 **PRIORITY CLAIM:**

 This application claims priority of U.S. Provisional patent application Ser. No.
60/404,173 filed August 15, 2002.

STATEMENT REGARDING FEDERALLY SPONSORED RESEARCH OR

15 **DEVELOPMENT:**

None

LATIN NAME OF THE GENUS AND SPECIES OF THE PLANT CLAIMED:

Prunus persica L. Batsch.

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VARIETY DENOMINATION:

'S 6817'

BACKGROUND OF THE INVENTION

The new nectarine tree 'S 6817' is the result of a controlled cross between 'Fantasia' (unpatented), seed parent, and an unnamed pollen parent. The cross was performed by the Institut National de la Recherche Agronomique (INRA) at Angers, France, as part of a controlled breeding program. The new nectarine tree 'S 6817' was developed by the Institut National de la Recherche Agronomique (INRA) at Angers, France, as part of a controlled breeding program. 'S 6817' was one of several seedlings resulting from a cross of [(Kiang-Si x Independence) x Summergrand] x Marsun (all unpatented). 'S 6817' was asexually propagated by budding at Angers, France, and has been observed to remain true to type over successive asexually propagated generations.

BRIEF SUMMARY OF THE INVENTION

'S 6817' was selected for its suitability as a commercial nectarine tree cultivar. Fruit of the 'S 6817' cultivar matures in late August in central Washington state, and is notable for its oblate shape. The fruit of 'S 6817' is distinguishable from that of the parent varieties by its oblate shape and smooth skin. The characteristics which distinguish 'S 6817' from its parents are set forth in Table 1.

Table 1

<u>Variety</u>	<u>Fruit Type</u>	<u>Shape</u>	<u>Flesh Color</u>
<u>S 6817</u>	<u>Nectarine</u>	<u>Flat</u>	<u>Yellow</u>
<u>Kiang-Si</u>	<u>Peach</u>	<u>Flat</u>	<u>Yellow</u>
<u>Independence</u>	<u>Nectarine</u>	<u>Round</u>	<u>Yellow</u>
<u>Summergrand</u>	<u>Nectarine</u>	<u>Round</u>	<u>Yellow</u>
<u>Marsun</u>	<u>Peach</u>	<u>Round</u>	<u>Yellow</u>

This variety is distinguishable over related variety 'S 6816' (U.S. Patent Application Ser. No. 10/642,442) by its later maturity date and larger and slightly astringent fruit.

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BRIEF DESCRIPTION OF THE PHOTOGRAPHS:

FIG. 1 shows a tree of the new cultivar;

FIG. 2 shows branches and blossoms of the new cultivar;

FIG. 3 shows a tree of the new cultivar;

10 FIG. 4 shows fruit and leaves of the new cultivar; and

FIG. 5 shows a sectioned fruit of the new cultivar.

DETAILED BOTANICAL DESCRIPTION OF THE VARIETY:

The following is a detailed botanical description of 'S 6817,' a new and distinct nectarine
15 tree, based on observations made during the 2004 growing season, of specimens planted at Parker, Washington, USA, in 2001. The described trees were grown on 'Lovell' (not patented) rootstock. All colors are described according to the Royal Horticultural Society Color Chart. It should be understood that the botanical and analytical characteristics described will vary somewhat depending

upon cultural practices and climatic conditions, and can vary with location and season. Quantified measurements are expressed as an average of measurements taken from a number of individual plants of the new variety. The measurements of any individual plant, or any group of plants, of the new variety may vary from the stated average.

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Tree

Type Non-spur type

Vigor Strong

Habit Upright, spreading

10 Size Width 3.2 m; height 1.9 m

Trunk Diameter 23.8 cm at soil level; bark very rough; overcolor grey 201D; undercolor grey-orange 166D ~~166DA~~; lenticels 0.4 to 0.6 cm, yellow 159A

Flowering Branch

15 Size Lateral branch diameter 2.6 cm, length 40.4 cm (previous season growth); internode length 2.8 to 4.9 cm

Color Greyed-red 178A

Anthocyanin coloration Present, medium intensity, red-purple 60B

Buds

20 Abundance of flower buds Many

Distribution of flower buds Generally in groups of two or more

Bud burst March 20 at Parker, Washington

	Duration of flowering	March 20 to April 7 at Parker, Washington
	Bud size	Length 0.8 to 0.9 cm
	Bud shape	Elongated with blunt tip, smooth
	Bud color	Red-purple 60A, tip pink 68B
5	Tolerance to cold	Hardy
	Flower	
	Type	Showy
	Calyx color (open flower before falling of petals)	Orange
10	Petals	Quantity 5; length 1.6 to 1.7 cm, width 1.2 to 1.4 cm; margins ruffled, overlapping; shape rotund; color at tip pink 69C, at base pink 70B
	Flower size	Diameter 3.9 to 4.0 cm
	Fragrance	Mild
	Sepals	Length 0.4 to 0.5 cm, width 0.3 to 0.4 cm; red-purple 60A
15	Reproductive organs	Stamen white 155D, quantity 32, length 0.9 to 1.0 cm; anther length 0.5 cm; filament 0.8 to 0.9 cm; pistil 1.1 to 1.2 cm, smooth, yellow 1A
	Pollen	Semi-abundant, yellow 1A
	Leaves	
20	Size	Large, length 14.5 cm, width 3.0 cm
	Ratio length/width	Medium
	Leaf shape	Oblanceolate, upfolded, tip recurved downward, base nearly right

		angle, equilateral, apex acuminate
	Leaf margin	Serrulate
	Leaf color	Upper surface green 147A; lower surface green 144A, anthocyanin coloration absent
5	Petiole	
	Size	Length 1.0 cm, diameter 0.1 cm
	Color	Green 149D
	Glands	Present, usually more than 2, reniform
	Fruit	
10	Size	Medium, diameter 8.6 cm
	Shape in profile view	Oblate, very flat
	Shape of tip	Bowl shaped depressed
	Symmetry when cut along suture	Asymmetric
	Suture	Marked
15	Depth of petiole cavity	Shallow, 1.2 cm
	Width of petiole cavity	Medium, 4.0 cm
	Skin	Thin, smooth, tenacious; ground color yellow-orange 19A, overcolor red 45A
	Firmness of flesh	Firm, crisp
20	Flesh texture	Fine
	Color	Yellow-orange 23C
	Anthocyanin coloration directly under skin	Absent

Anthocyanin coloration of the flesh Absent

Anthocyanin coloration around the stone Present, red 43A

Pit cavity Diameter 2.6 cm, color red-purple 59C

Flavor Sub-acid

5 Sugar content of flesh Medium, 12.5° Brix

Stone

Size Small in relation to fruit, diameter 26 mm

Shape Flat, round, surface texture ridged

Color Red, 53A

10 Likelihood of stone to split Absent or very weak

Degree of adherence to flesh Medium, semi-freestone

Maturity

Time of maturity Late, beginning August 27 at Parker, Washington; requires more
than one picking

15 Preharvest drop Some occurrence

Heat and cold tolerance Tolerant in area tested (USDA Zone 6)

Resistance to diseases and pests None observed

ABSTRACT

A new cultivar of nectarine tree (*Prunus persica* L. Batsch) named 'S 6817' is disclosed.

The fruit of 'S 6817' is oblate, yellow fleshed, and semi-freestone.

CLAIM

We claim:

A new and distinct nectarine tree, substantially as shown and described herein.